

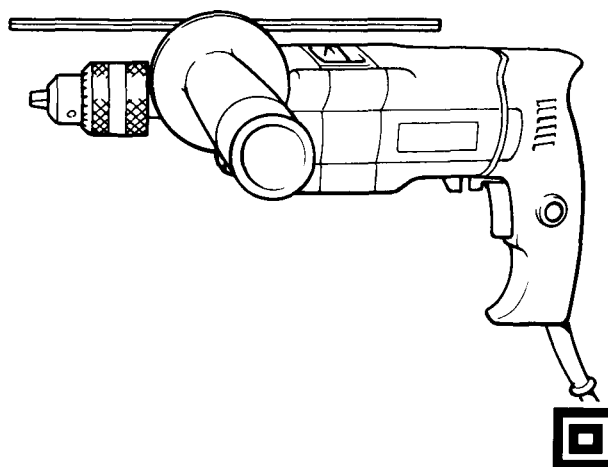
Makita

2-Speed Hammer Drill

20 mm (3/4'') **MODEL HP2032**
Variable speed / Reversing

20 mm (3/4'') **MODEL HP2033**
Variable speed / Reversing

INSTRUCTION MANUAL



SPECIFICATIONS

Speed	Capacities			No load speed (RPM)	Blows per minute
	Concrete	Steel	Wood		
High	20 mm (3/4'')	8 mm (5/16'')	25 mm (1'')	0 – 2,900	0 – 32,000
Low	—	13 mm (1/2'')	40 mm (1-9/16'')	0 – 850	0 – 9,400
Overall length			Net weight		
HP2032		HP2033		HP2032	HP2033
370 mm (14-9/16'')		368 mm (14-7/16'')		2.5 kg (5.5 lbs)	2.5 kg (5.5 lbs)

* Manufacturer reserves the right to change specifications without notice.

* Specifications may differ from country to country.

WARNING: For your personal safety, READ and UNDERSTAND before using.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

GENERAL SAFETY RULES

(For All Tools)

WARNING! Read and understand all instructions. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.


SAVE THESE INSTRUCTIONS

READ ALL INSTRUCTIONS.

WORK AREA

1. **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

4. **Double Insulated tools are equipped with a polarized plug (one blade is wider than the other.) This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way. Double insulation  eliminates the need for the three wire grounded power cord and grounded power supply system.**
5. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
6. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
7. **Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.
8. **When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W."** These cords are rated for outdoor use and reduce the risk of electric shock.

PERSONAL SAFETY

9. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
10. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.

11. **Avoid accidental starting. Be sure switch is off before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
12. **Remove adjusting keys or wrenches before turning the tool on.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
13. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
14. **Use safety equipment. Always wear eye protection.** Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

TOOL USE AND CARE

15. **Use clamps or other practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
16. **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
17. **Do not use tool if switch does not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
18. **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
19. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
20. **Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.
21. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
22. **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool, may become hazardous when used on another tool.

SERVICE

23. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
24. **When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

Specific Safety Rules

1. Hold tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
2. Wear ear protectors when using the tool for extended periods. Prolonged exposure to high intensity noise can cause hearing loss.
3. Wear a hard hat (safety helmet), safety glasses and/or face shield. It is also highly recommended that you wear a dust mask and thickly padded gloves.
4. Under normal operation, the tool is designed to produce vibration. The screws can come loose easily, causing a breakdown or accident. Check tightness of screws carefully before operation.
5. Always be sure you have a firm footing.
Be sure no one is below when using the tool in high locations.
6. Hold the tool firmly with both hands. Always use the side grip.
7. Keep hands away from rotating parts.
8. Do not leave the tool running. Operate the tool only when hand-held.
9. Do not touch the bit or the workpiece immediately after operation; they may be extremely hot and could burn your skin.

SAVE THESE INSTRUCTIONS.

SYMBOLS

The followings show the symbols used for tool.

V volts

A amperes

Hz herts



..... alternating current

n_0 no load speed



..... Class II Construction

.../min revolutions or reciprocation per minute



..... number of blow

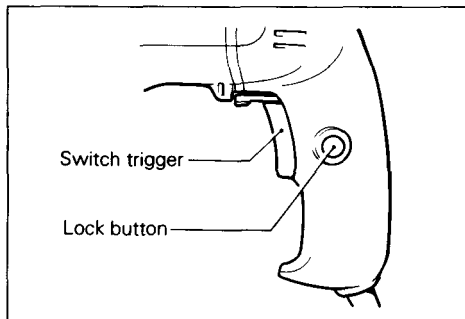
FUNCTIONAL DESCRIPTION

Switch action

CAUTION:

Before plugging in the tool, always check to see that the switch trigger actuates properly and returns the "OFF" position when released.



To start the tool, simply pull the trigger. Tool speed is increased by increasing pressure on the trigger. Release the trigger to stop. For continuous operation, pull the trigger and then push in the lock button. To stop the tool from the locked position, pull the trigger fully, then release it.

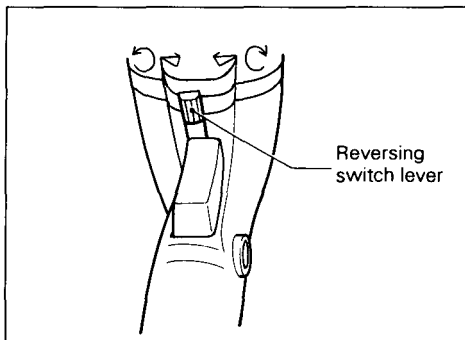


Reversing switch action

CAUTION:

- Always check the direction of rotation before operation.
- Use the reversing switch only after the tool comes to a complete stop. Changing the direction of rotation before the tool stops may damage the tool.

This tool has a reversing switch to change the direction of rotation. Move the reversing switch lever to the  position for clockwise rotation or the  position for counterclockwise rotation.



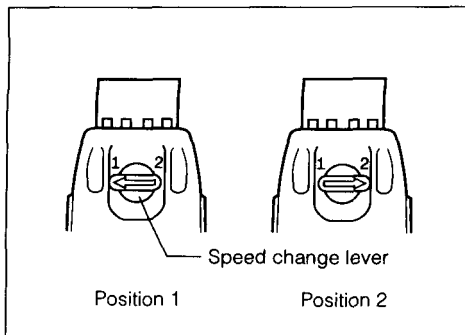
Speed change lever

Two rpm ranges can be preselected with the speed change lever.


Turn the speed change lever to the position 1 or position 2.

Position 1: 0 – 850 rpm

Position 2: 0 – 2,900 rpm




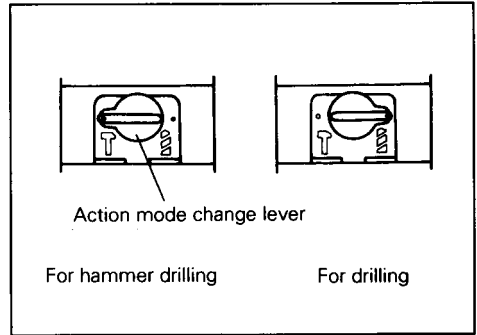
Hammer drilling

When drilling in concrete, granite, tile, etc., turn the action mode change lever to the position of  symbol.

Be sure to use a tungsten-carbide tipped bit

Drilling

When drilling in wood, metal or plastic materials, turn the action mode change lever to the position of  symbol.



ASSEMBLY

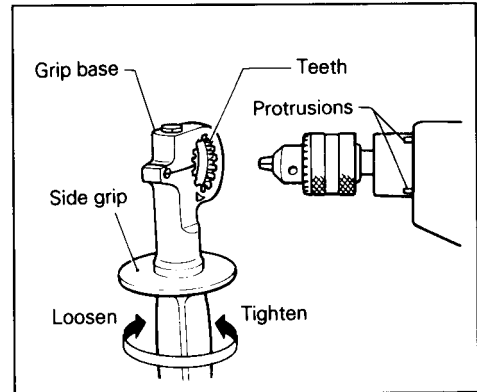
CAUTION:

Always be sure that the tool is switched off and unplugged before installing or removing the side grip, bit or other accessories.

Side grip (auxiliary handle)

Always use the side grip to ensure operating safety. Install the side grip so that the teeth on the grip fit in between the protrusions on the tool barrel.

Then tighten the grip by turning clockwise at the desired position. It may be swung 360° so as to be secured at any position.



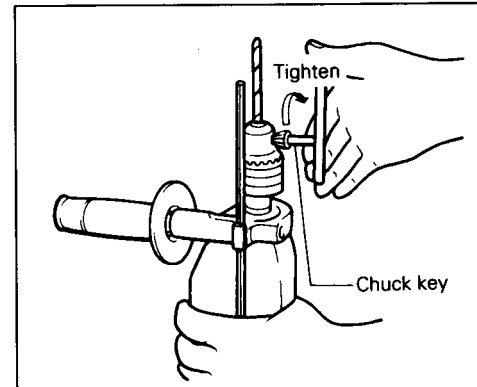
Installing or removing drill bit

For HP2032

To install the bit, place it in the chuck as far as it will go. Tighten the chuck by hand. Place the chuck key in each of the three holes and tighten clockwise. Be sure to tighten all three chuck holes evenly.

To remove the bit, turn the chuck key counterclockwise in just one hole, then loosen the chuck by hand.

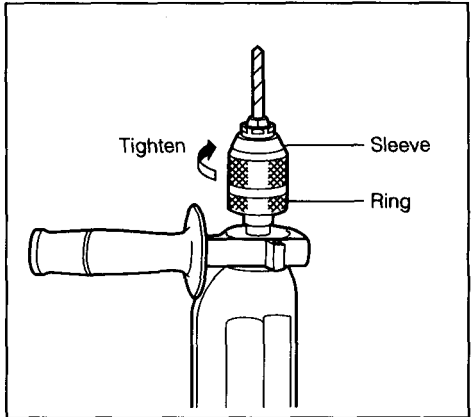
After using the chuck key, be sure to return to the original position.



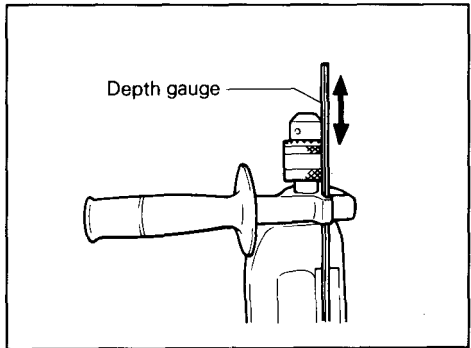
For HP2033

Hold the ring and turn the sleeve counterclockwise to open the chuck jaws. Place the bit in the chuck as far as it will go. Hold the ring firmly and turn the sleeve clockwise to tighten the chuck.

To remove the bit, hold the ring and turn the sleeve counterclockwise.

**Depth gauge**


The depth gauge is convenient for drilling holes of uniform depth. Loosen the side grip and insert the depth gauge into the hole in the side grip. Adjust the depth gauge to the desired depth and tighten the side grip.

**NOTE:**

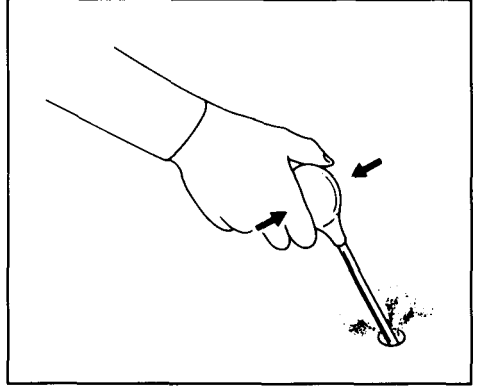
The depth gauge cannot be used at the position where the depth gauge strikes against the gear housing.

OPERATION


1) Hammer drilling operation

When drilling in concrete, granite, tile, etc., turn the action mode change lever to the position of  symbol to use "rotation with hammering" action. Be sure to use a tungsten-carbide tipped bit. Do not apply more pressure when the hole become clogged with chips or particles. Instead, turn the tool at an idle, then remove the bit partially from the hole. By repeating this several times, the hole will be cleaned out.

After drilling the hole, use the blow-out bulb to clean the dust out of the hole.



2) Drilling operation

When drilling in wood, metal or plastic materials, turn the action mode change lever to the position of  symbol to use "rotation only" action.

•Drilling in wood

When drilling in wood, best results are obtained with wood drills equipped with a guide screw. The guide screw makes drilling easier by pulling the bit into the workpiece.

•Drilling in metal

To prevent the bit from slipping when starting a hole, make an indentation with a centerpunch and hammer at the point to be drilled. Place the point of the bit in the indentation and start drilling.

Use a cutting lubricant when drilling metals. The exceptions are iron and brass which should be drilled dry.

CAUTION:

- Pressing excessively on the tool will not speed up the drilling. In fact, this excessive pressure will only serve to damage the tip of your bit, decrease the tool performance and shorten the service life of the tool.
- There is a tremendous twisting force exerted on the tool/bit at the time of hole breakthrough. Hold the tool firmly and exert care when the bit begins to break through the workpiece.
- A stuck bit can be removed simply by setting the reversing switch to reverse rotation in order to back out. However, the tool may back out abruptly if you do not hold it firmly.
- Always secure small workpieces in a vise or similar hold-down device.

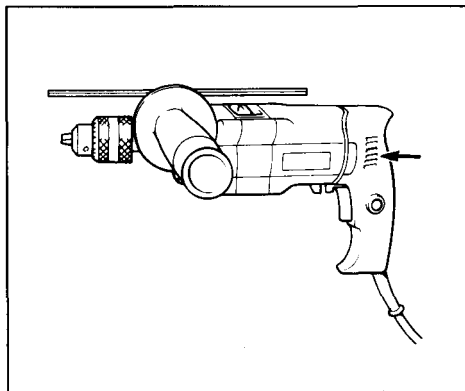
MAINTENANCE

CAUTION:

Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.

Cleaning vent holes

Periodically clean the vent holes to prevent them from being clogged with dust, dirt or the like.



To maintain product SAFETY and RELIABILITY, repairs, maintenance or adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

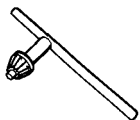
ACCESSORIES

CAUTION:

These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. The accessories or attachments should be used only in the proper and intended manner.

• Chuck key S13 (HP2032)

Part No. 763440-4



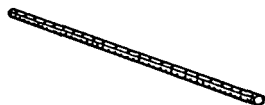
• Plastic carrying case

Part No. 824485-4



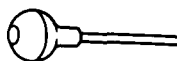
• Depth gauge

Part No. 415486-9

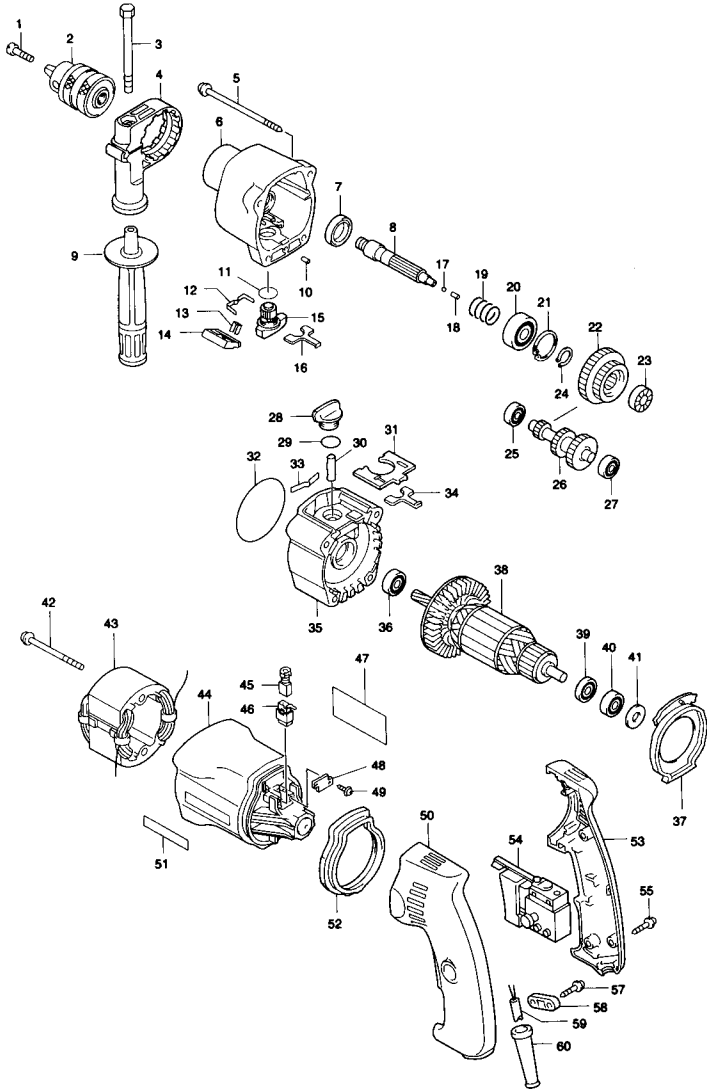


• Blow-out bulb

Part No. 765009-6



20 mm (3/4") **2-SPEED HAMMER DRILL** **Model HP2032**

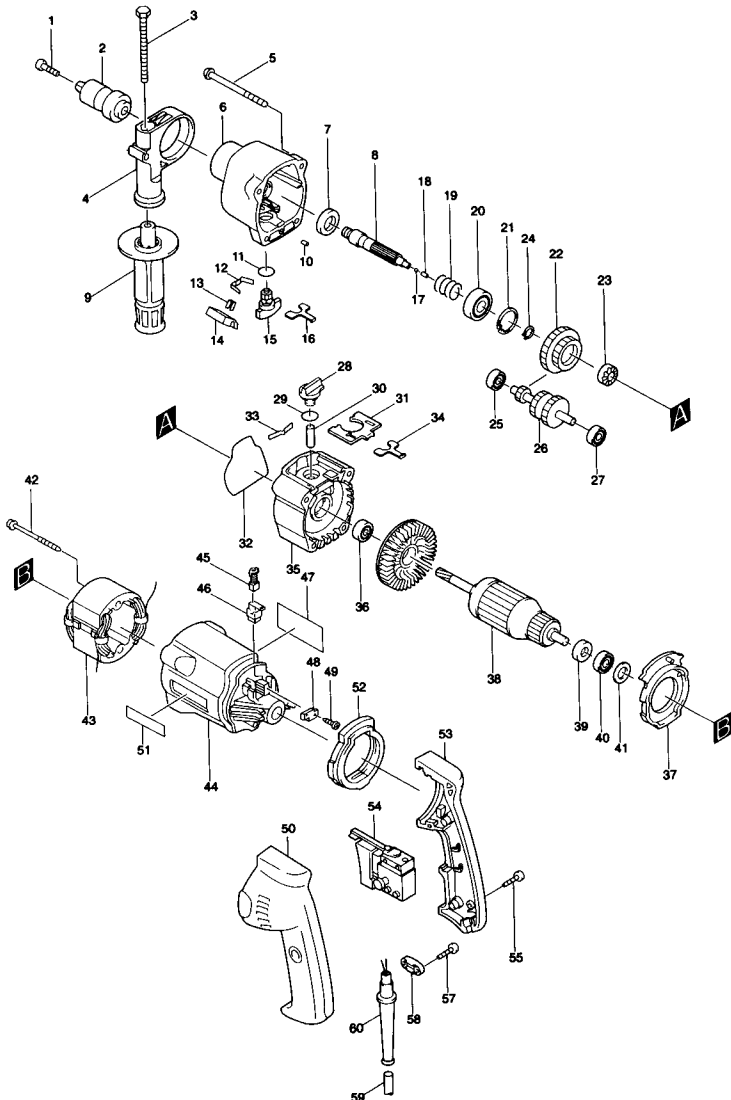


Note: The switch and other part configurations may differ from country to country.

ITEM NO.	NO. USED	DESCRIPTION	ITEM NO.	NO. USED	DESCRIPTION
MACHINE			MACHINE		
1	1	Flat Head Screw M6x22	31	1	Cam Housing Cover
2	1	Drill Chuck S13	32	1	O Ring 72
3	1	Hex. Bolt M8x110	33	1	Leaf Spring
4	1	Grip Base	34	1	Lock Plate
5	4	Tapping Screw Flange PF 5x70	35	1	Cam Housing Complete
6	1	Gear Housing	36	1	Ball Bearing 608DDW
7	1	Oil Seal 19	37	1	Baffle Plate
8	1	Spindle	38	1	ARMATURE ASSEMBLY (With Item 36, 39 & 40)
9	1	Grip 36 Complete	39	1	Insulation Washer
10	1	Pin 4	40	1	Ball Bearing 627LLB
11	1	O Ring 14	41	1	Flat Washer 16
12	1	Leaf Spring	42	2	Tapping Screw Flange PF 4x65
13	1	Change Plate	43	1	Field
14	1	Rack 12	44	1	Motor Housing
15	1	Change Lever B	45	2	Carbon Brush
16	1	Lock Plate	46	2	Brush Holder
17	1	Steel Ball 3.5	47	1	Name Plate
18	1	Pin 4	48	2	Brush Holder Plate
19	1	Compression Spring 16	49	4	Tapping Screw Bind PT 3x10
20	1	Ball Bearing 6202LLB	50	1	Handle Set (With Item 53)
21	1	Retaining Ring R-35	51	1	Makita Label
22	1	Spur Gear 27-38	52	1	Cushion Rubber
23	1	Cam A	53	1	Handle Set (With Item 50)
24	1	Retaining Ring S-15	54	1	Switch
25	1	Ball Bearing 606	55	5	Tapping Screw Flange PF 4x18
26	1	Gear Complete 8-19-25	57	2	Tapping Screw Flange PF 4x18
27	1	Ball Bearing 606	58	1	Strain Relief
28	1	Change Lever A	59	1	Cord
29	1	O Ring 14	60	1	Cord Guard
30	1	Change Pin 8			

Note: The switch and other part specifications may differ from country to country.

20 mm (3/4") **2-SPEED HAMMER DRILL** **Model HP2033**



Note: The switch and other part configurations may differ from country to country.

ITEM NO.	NO. USED	DESCRIPTION	ITEM NO.	NO. USED	DESCRIPTION
MACHINE			MACHINE		
1	1	Flat Head Screw M6x22	31	1	Cam Housing Cover
2	1	Keyless Drill Chuck Set	32	1	O Ring 72
3	1	Hex. Bolt M8x110	33	1	Leaf Spring
4	1	Grip Base	34	1	Lock Plate
5	4	Tapping Screw Flange PF 5x70	35	1	Cam Housing Complete
6	1	Gear Housing	36	1	Ball Bearing 608DDW
7	1	Oil Seal 19	37	1	Baffle Plate
8	1	Spindle	38	1	ARMATURE ASSEMBLY (With Item 36, 39 & 40)
9	1	Grip 36 Complete	39	1	Insulation Washer
10	1	Pin 4	40	1	Ball Bearing 627LLB
11	1	O Ring 14	41	1	Flat Washer 16
12	1	Leaf Spring	42	2	Tapping Screw Flange PF 4x65
13	1	Change Plate	43	1	Field
14	1	Rack 12	44	1	Motor Housing
15	1	Change Lever B	45	2	Carbon Brush
16	1	Lock Plate	46	2	Brush Holder
17	1	Steel Ball 3.5	47	1	Name Plate
18	1	Pin 4	48	2	Brush Holder Plate
19	1	Compression Spring 16	49	4	Tapping Screw Bind PT 3x10
20	1	Ball Bearing 6202LLB	50	1	Handle Set (With Item 53)
21	1	Retaining Ring R-35	51	1	Makita Label
22	1	Spur Gear 27-38	52	1	Cushion Rubber
23	1	Cam A	53	1	Handle Set (With Item 50)
24	1	Retaining Ring S-15	54	1	Switch
25	1	Ball Bearing 606	55	5	Tapping Screw Flange PF 4x18
26	1	Gear Complete 8-19-25	57	2	Tapping Screw Flange PF 4x18
27	1	Ball Bearing 606	58	1	Strain Relief
28	1	Change Lever A	59	1	Cord
29	1	O Ring 14	60	1	Cord Guard
30	1	Change Pin B			

Note: The switch and other part specifications may differ from country to country.

WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- * lead from lead-based paints,
- * crystalline silica from bricks and cement and other masonry products, and
- * arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

MAKITA LIMITED ONE YEAR WARRANTY

Warranty Policy

Every Makita tool is thoroughly inspected and tested before leaving the factory. It is warranted to be free of defects from workmanship and materials for the period of ONE YEAR from the date of original purchase. Should any trouble develop during this one-year period, return the COMPLETE tool, freight prepaid, to one of Makita's Factory or Authorized Service Centers. If inspection shows the trouble is caused by defective workmanship or material, Makita will repair (or at our option, replace) without charge.

This Warranty does not apply where:

- repairs have been made or attempted by others;
- repairs are required because of normal wear and tear;
- The tool has been abused, misused or improperly maintained;
- alterations have been made to the tool.

IN NO EVENT SHALL MAKITA BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

MAKITA DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF "MERCHANTABILITY" AND "FITNESS FOR A SPECIFIC PURPOSE," AFTER THE ONE-YEAR TERM OF THIS WARRANTY.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.



MAKITA MANUFACTURING EUROPE LTD
TELFORD, SHROPSHIRE, ENGLAND